BRUHATH BANGALORE MAHANAGARA PALIKE,

Name of Work: Providing and Sinking of Borewells Pumps, Motor & Water Supply lines in Ward No 15, Daasarahalli sub Division.

Job Code-015-18-000006 *Est Cost Rs 40.00 Lakhs*

Sl No	Description	Unit	Nos	L	B	D	Qty.	Rate	Amount
1	**Geophysical investigation of site for sinking borewell** for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc (P.NO-47, I.NO-9.4, PRED 12-13 SR)								
		Each	5				5	1882.00	9410.00
	Basic Rate	1882.00							
2	**Sinking of borewell of 165 mm dia clear** using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (P.NO-47, I.NO-9.1, PRED 12-13 SR)								
	0.00 to 50.00 Mtr.	Mtr	5	50.00			250.00	315.18	**78795.00**
	50.00 to 100.00 Mtr.		5	50.00			250.00	412.60	**103150.00**
	100.00 to 150.00 Mtr.		5	50.00			250.00	458.35	**114587.50**
	150.00 to 200.00 Mtr.		5	50.00			250.00	484.10	**121025.00**
	200.00 to 250.00 Mtr.		5	50.00			250.00	560.32	**140080.00**
	250.00 to 300.00 Mtr.		5	50.00			250.00	600.00	**150000.00**
	300.00 to 330.00 Mtr		5	30.00			150.00	640.60	**96090.00**
	Basic Rate	306.00							
3	Supplying of ISI Mark **175 mm nominal bore medium black ERW casing pipe** of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/!993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) (P.NO-III, I.NO-84, PRED 12-13 SR)								
		Mtr	4	69.00			**276.00**	1325.00	**365700.00**
	Basic Rate	1325.00							
4	Providing and fixing **250mm dia PVC pipe** and as per specification and directions. (BWSSB SR 13-14, P.No.53 I.no.1 of sl.no.11.)								
		Each	4	18.00			**72.00**	1133.00	**81576.00**

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	Basic Rate	1100.00								
	3% area weightage	33.00								
	Total	**1133.00**								
5	175 mm dia **M.S. Casing cap** (P.NO-III, I.NO-85, PRED 12-13 SR)									
		Each	4				**4**	100.00	**400.00**	
	Basic Rate	100.00								
6	supply of 175mm **M.S collars** each (P.NO-III, I.NO-86, PRED 12-13 SR)									
		Each	4	12			**48**	150.00	**7200.00**	
	Basic Rate	150.00								
7	Supply & delivery at site brand **new texmo/innoval/lubi/sabar /Atalanta/calamal/** waterman/Radha make **suitable HP deep well submercible pumpset** suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15.000. HP 25 stage **(P.NO-XXXX, I.NO-30, PWD SR-2016-17)**									
		set	6				**6**	69334.60	**416008.00**	
	Basic Rate	65410.00								
	6% area weightage	3924.60								
	Total	**69334.60**								
8	KSRB 13-1.1 : Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 50mm dia nominal bore with fittings (medium grade weight 1.27 kg/mtr) B class including cost of all materials, labour, charges HOM of equipments and testing complete as per specifications. Specification No. KBS 13.2.14 / 13.8 Page No. 90/ Item No. 13.1 / PWD SR 2016-17									
		Rmtr	4	290.00			**1160.00**	540.60	**627096.00**	
	Total									
	Basic Rate	510.00								
	6% area weightage	30.60								
	Total	**540.60**								
9	**Supplying and drawing 3 core PVC** Sheathed submersible pump **cable** manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia **(P.535, It 30 (c), Group A BWSSB 13-14 SR)**									
		Mtr	4	580.00			**2320.00**	164.29	**381141.00**	
	Basic Rate	159.50								
	3% area weightage	4.79								
	Total	**164.29**								

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10	**Supplying & delivery at site brand new** / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control **panel board unit** of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)								
		no	4				**4**	14800.00	**59200.00**
11	**Fabricating supplying and mounting MS box** of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm **(P.NO-530, I.NO-39 b, BWSSB SR 13-14)**								
		Sqm Cm	4	1100.00	20.00		**88000.00**	0.34	**29911.00**
	Basic Rate	0.33							
	3% area weightage	0.01							
	Total	**0.34**							
12	**Providing & Fixing of clamps se**t and borewell cap to the pump (MR)								
		No's	4				**4**	690.00	**2760.00**
13	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve. **(PWD SR-2016-17, P.NO.XXIII, Sl.no, 659)**								
		No's	4	1.00			**4.00**	1213.70	**4855.00**
	Basic Rate	1145.00							
	6% area weightage	68.70							
	Total	**1213.70**							
14	Supplying and delivery of brand new best make **Gate Valve of size 50mm** as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributer pipeline. 50mm dia **(PWD SR-2016-17, P.NO.XXIII, Sl.no, 673)**								
		No's	4	1			**4**	1696.00	**6784.00**
	Basic Rate	1600.00							
	6% area weightage	96.00							
	Total	**1696.00**							
15	Providing and fixing of **50mm GI Short bend** to motor (PWD SR-2014-15, P.NO.XXXIX, G.I. Pipe Fittings - ISI Standards Table)								
		No's	4	1			**4**	232.14	**929.00**
	Basic Rate	219.00							
	6% area weightage	13.14							
	Total	**232.14**							

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16	Providing and fixing of **50mm GI union** to the motor (PWD SR-2014-15, P.NO.XXXIX, G.I. Pipe Fittings - ISI Standards Table)								
		No's	4	1			**4**	237.12	**948.00**
	Basic Rate	223.70							
	6% area weightage	13.42							
	Total	**237.12**							
17	suppling & fixing of 50mm GI Elbow **PWD SR 15-16 XXXIX**								
		No's	4				**4**	111.80	**447.00**
18	**Labour charges for erection of new** /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) **(P.No - 564, I.No - 3, BWSSB SR 13-14)**								
		Per length	4	50			**200**	90.64	**18128.00**
	Basic Rate	88.00							
	3% area weightage	2.64							
	Total	**90.64**							
19	**Erection of combined panel board meter** board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc,. Complete for basement out door type. (MR)								
		No's	4	1			**4**	475.00	**1900.00**
20	**Supplying and fixing miniature circuit breakers**/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP **(P-526, It - 13D (a), BWSSB SR 13-14)**								
		No's	4	1			**4**	906.40	**3626.00**
	Basic Rate	880.00							
	3% area weightage	26.40							
	Total	**906.40**							
21	**Supplying and laying of L.T.U.G Cable** having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) **(P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14)**								
		Mtr	4	45.00			**180.00**	169.95	**30591.00**
	Basic Rate	165.00							
	3% area weightage	4.95							
	Total	**169.95**							
22	**Digging of trenches** of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces **(P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14)**								
		Mtr	4	45.00			**180.00**	56.65	**10197.00**
	Basic Rate	55.00							
	3% area weightage	1.65							
	Total	**56.65**							
23	Supplying and fixing **Class-A GI Pipe on pole/ wall/drain** crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14)								
		Mtr	4	3			**12**	249.26	**2991.00**

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	Basic Rate	242.00								
	3% area weightage	7.26								
	Total	**249.26**								
24	Supplying and fixing wiring **earth electrode for grounding** conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia **(P.NO - 552, I.NO - 7 , BWSSB SR 13-14)**									
		No's	4				**4**	1699.50	**6798.00**
	Basic Rate	1650.00							
	3% area weightage	49.50							
	Total	**1699.50**							
25	**Supply and fixing LT cast iron pot heads** suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, **(P.NO - 555, I.NO - 16 (b) , BWSSB SR 13-14)**									
		No's	4				**4.00**	271.92	**1088.00**
	Basic Rate	264.00							
	3% area weightage	7.92							
	Total	**271.92**							
26	**Supplying shunt capacitor's** confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR)									
		No's	4				**4**	1350.00	**5400.00**
27	Providing and fixing **Gun Metal Gate wheel valve** confirming to IS specification of approved make as per direction including all lead and lift etc,. Complete. 50mm dia **(P.NO - 94, I.NO - 13.79.6, PWD SR-2016-17)**									
		No's	4	3			**12**	1526.40	**18317.00**
	Basic Rate	1440.00							
	6% area weightage	86.40							
	Total	**1526.40**							
28	Supplying and fixing of **polished wood board** made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches **(P.NO - 521, I.NO - 2 (f), BWSSB SR 13-14)**									
		No's	4				**4**	311.58	**1246.00**
	Basic Rate	302.50							
	3% area weightage	9.08							
	Total	**311.58**							
29	**Earthwork excavation for** foundation of buildings, **water supply,** sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications **(P.NO - 5, I.NO - 2.4, PWD SR-2016-17)**									

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		Cum	4	295.00	0.60	0.90	637.20		
							637.20	299.98	191147.00
	Basic Rate	283.00							
	6% area weightage	16.98							
	Total	**299.98**							
30	Providing and instalation at site of works P.V.C.Pipes 75mm Dia 6 KSC including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.3 item No.4.2 PRE SR 2012-13								
	Borewell Surroundings connections	Mtr	4	395.00			1580.00		
							0.00		
	Basic Rate	174.00					1580.00	184.44	291415.20
	6% area weightage	10.44							
	Total	**184.44**							
31	**Refilling available earth around pipe lines**, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications **(P 6, It - 2.11, PWD SR-2016-17)**								
		Cum	4	295.00	0.60	0.90	637.20		
							637.20	80.56	51333.00
	Basic Rate	76.00							
	6% area weightage	4.56							
	Total	**80.56**							
32	Providing and supplying water through water tanks of Capacity 6000 lts on Higher Basis everyday from 6.00 A.M to 6.00 P.M as per the direction of the Engineer of the work higher charages will be inclusive desile, oil, spare parts and other consumbles inclusive of Driver and etc.								
			No of days	No of Loads /day					
		Days	43	5			215	515.00	110725.00
33	**KPTCL Deposit charges**								
		Each	4				4	14000.00	56000.00
34	**Borewell registration charges per Rs 1000 each for BWSSB**								
		Each	4				4	1000.00	4000.00
								Sub Total	3602129.00

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
								KRIDL charges 9%	396234.00 ~~330262.83~~
								Micellaneous and Rounding off	1637.00 ~~150.17~~
								GRAND TOTAL	4000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-17 Pred SR 12-13
4. The Provisions made in the estimate are Necessary and essential.
5. This work is not included in any other work taken up

Assistant Engineer
Ward-15

Asst. Exeutive Engineer
Dasarahallihalli Sub-division
BBMP, Bangalore

Exeutive Engineer
Dasarahalli division
BBMP, Bangalore

ನಂ.EE/DD/AS/12/ದಿನಾಂಕ: 10/10/18

ರೂ. Rs. Fourteen lacks only (DD.CR)

ಅಂದಾಜುಪಟ್ಟಿಗೆ ಪ್ರಶಂತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. CE/TS/25/18-19 ದಿನಾಂಕ: 11/10/2018

ರೂ. Rs. 40.00 (Lakhs only)

ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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